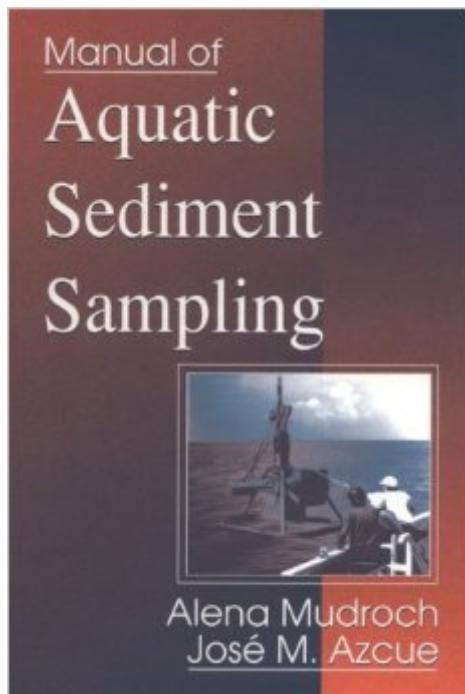


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Manual Of Aquatic Sediment Sampling



Synopsis

Little attention has been paid to the techniques for aquatic sediment sampling in the scientific literature dealing with environmental issues. With increasing interest in aquatic sediments as a sink source of contaminants in aquatic ecosystems, it has been recognized that sediment sampling is a complex and poorly documented discipline. No standardized methods exist to preserve the integrity of sediment and, particularly, sediment pore water, during sampling for different analyses and biological testing for assessment of sediment quality. A practical guide presenting the various methods available would prove extremely valuable. This is that guide. The book begins with a description of the objectives of sediment sampling for different purposes and planning of sampling programs. Most commonly used and readily available samplers and sampling techniques are explained for routine monitoring of sediment contamination and studies of sediment quality. Sample handling, transport, and storage are outlined relevant to the subsequent use of the collected sediments in physico-chemical analysis and biological testing. Measurements and notes of observations in the field during collection of sediments are described. Methods and equipment for collection of sediment pore water are detailed, and the efficiency, cost, and safety involved in sediment sampling are considered. The Manual of Aquatic Sediment Sampling contains examples, figures, and tables to enhance the reader's understanding of the material and of the importance of choosing proper techniques in sediment sampling programs. For each topic, recent citations are included from specialized literature. The Manual of Aquatic Sediment Sampling contains many examples, figures, and tables which will help the reader to understand the importance of choosing proper techniques in sediment sampling programs, and will provide a guide to preparation and execution of such programs.

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